

**IN THE UNITED STATES PATENT  
AND TRADEMARK OFFICE**

APPLICANTS: Richard Kent Neves, Sandeep Kishan Singhal, Rangachari Anand,  
Ajei Sarat Gopal and Yoonho Park

PATENT NO.: 7,113,599 B2

ISSUE DATE: September 26, 2006

SERIAL NO.: 10/688,576

FILING DATE: October 18, 2003

TITLE: Location-Independent Packet Routing and Secure Access in a  
Short-Range Wireless Networking Environment

ATTY. DKT. NO.: 20423-10008

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COMMISSIONER FOR PATENTS  
P.O. BOX 1450  
ALEXANDRIA, VA 22313-1450

ATTENTION: CERTIFICATE OF CORRECTION BRANCH

**REQUEST FOR CERTIFICATE OF CORRECTION**

SIR:

The following errors, as more fully described below, appear in this patent.

☒ The Applicant submits that no fee is due for correction of the errors made by the Patent and Trademark Office, as evidenced by the attached 312 Amendment filed by the Applicant on March 21, 2006, which shows the correct state of the claims prior to being renumbered by the Office; OR,

☐ The errors occurred in good faith. Correction thereof does not involve such changes in the patent as would constitute new matter or would require re-examination. A Certificate of Correction is requested. Enclosed herewith is payment in the amount of \$100.00 to cover the fee for this Certificate of Correction.

Attached hereto are duplicate Forms PTO-1050, with at least one copy that is suitable for printing.

Applicant kindly requests the following changes:

Column 22, line 31: delete: "11. The method according to claim 10, wherein at least two of the selected client devices share a particular home agent." and insert instead: -- 11. The method according to Claim 9, wherein the intermediary agents include a home agent associated with each of the selected client devices.--

Column 22, line 37: delete: "13. The method according to claim 9, wherein the intermediary agents include a home agent associated with each of the selected client devices. and insert instead: --13. The method according to Claim 12, wherein the particular home agent is a central server.--

Column 22, line 40: delete: "14. The method according to claim 13, wherein the home agent associated with at least one of the selected client devices is determined using administrative policy." and insert instead: --14. The method according to Claim 11, wherein the home agent associated with at least one of the selected client devices is determined using administrative policy.

Please send the Certificate to:

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Respectfully submitted,  
RICHARD KENT NEVES, ET AL.

Dated: October 31, 2006

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 7,113,599 B2

APPLICATION NO.: 10/688,576

ISSUE DATE : September 26, 2006

INVENTOR(S) : Richard Kent Neves, Sandeep Kishan Singhal, Rangachari Anand, Ajei Sarat Gopal, Yoonho Park

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 22, line 31: delete: "11. The method according to claim 10, wherein at least two of the selected client devices share a particular home agent." and insert instead: -- 11. The method according to Claim 9, wherein the intermediary agents include a home agent associated with each of the selected client devices.--

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### MAILING ADDRESS OF SENDER (Please do not use customer number below):

Neil F. Maloney  
Fenwick & West LLP  
801 California Street

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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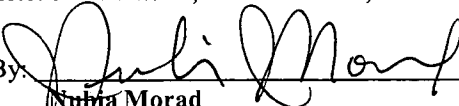
IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

APPLICANT(S): Richard K. Neves, et al.  
APPLICATION NO.: 10/688,576  
FILING DATE: October 18, 2003  
TITLE: LOCATION-INDEPENDENT PACKET ROUTING AND  
SECURE ACCESS IN A SHORT-RANGE WIRELESS  
NETWORKING ENVIRONMENT  
EXAMINER: Thomas R. Peeso  
GROUP ART UNIT: 2132  
ATTY. DKT. NO.: 20423-10008

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below:

Dated: March 21, 2006

By:   
Nubia Morad

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COMMISSIONER FOR PATENTS  
P. O. BOX 1450  
ALEXANDRIA, VA 22313-1450

AMENDMENT UNDER 37 CFR § 1.312

Examiner:

Prior to issuance of the above-identified application, please amend the application as follows. This amendment adds the now known patent number associated with the parent application to the Applicants' priority claim, and corrects some dependencies. No new matter is being added.

## AMENDMENTS TO THE SPECIFICATION

Based on Examiner's Amendment noted in the Notice of Allowability, please amend the paragraph beginning at line 1 on page 1 as follows (note that the Examiner's amendment suggested inserting "6691227" after "Patent"; the Applicants have interpreted this accordingly, as shown here):

--The present invention is a continuation of ~~commonly assigned U.S. Pat. No. \_\_\_\_\_~~  
(~~Ser. U.S. Application No. 09/657,745, filed Sep. 8, 2000 (now U.S. Patent No. 6,691,227)~~),  
which is hereby incorporated herein by reference. ~~Priority from this commonly assigned, co-~~  
~~pending application is claimed under 35 U.S.C. 120.~~ The present invention is related to  
~~commonly assigned U.S. Pat. No. 6,633,761 (Ser. No. U.S. Application No. 09/637,742, filed~~  
Aug. 11, 2000 (now U.S. Patent No. 6,633,761), entitled "Enabling Seamless User Mobility in a  
Short-Range Wireless Networking Environment", which is hereby incorporated herein by  
reference.--

### **AMENDMENTS TO THE CLAIMS**

All pending claims and their present status are produced below.

Claim 66. (Original) A method of enabling location-independent packet routing in a short-range wireless networking environment, comprising steps of:

providing one or more portable client devices, each of the client devices identified by a constant client address and equipped with a short-range wireless communications capability for communicating in the short-range wireless networking environment;

providing one or more application servers, each of the application servers equipped for communicating over the short-range wireless networking environment;

transmitting a packet from a selected one of the application servers to a selected one of the client devices, wherein the transmitted packet is received at a home agent associated with the selected client device;

forwarding, by the home agent, the received packet to a foreign agent through which the selected client device is currently communicating;

receiving, by the foreign agent, the forwarded packet; and

forwarding, by the foreign agent, the received forwarded packet to the selected client device.

Claim 67. (Original) The method according to Claim 66, wherein a fixed host is chosen as the home agent associated with the selected client device.

Claim 68. (Original) The method according to Claim 66, wherein an identification of the selected one of the client devices determines which of a plurality of home agents is associated with the selected client device.

Claim 69. (Original) The method according to Claim 66, wherein an identification of a user of the selected client device determines which of a plurality of home agents is associated with the selected client device.

Claim 70. (Original) The method according to Claim 66, wherein a central server is selected as the home agent associated with the selected client device.

Claim 71. (Original) The method according to Claim 66, wherein the step of forwarding by the home agent further comprises the step of consulting a repository to determine through which of a plurality of foreign agents the selected client device is currently communicating.

Claim 72. (Original) A method of enabling location-independent packet routing in a short-range wireless networking environment, comprising steps of:

providing one or more portable client devices, each of the client devices identified by a constant client address and equipped with a short-range wireless communications capability for communicating in the short-range wireless networking environment; providing one or more application servers, each of the application servers equipped for communicating over the short-range wireless networking environment; transmitting a packet from a selected one of the client devices to a selected one of the application servers, wherein the transmitted packet is received at a foreign agent through which the-selected client device is currently communicating; and forwarding, by the foreign agent, the received packet to the selected application server.

Claim 73. (Original) The method according to Claim 72, further comprising the steps of:

consulting a repository, responsive to receiving the transmitted packet, to determine a network address and port number to be used for identifying the selected client device;

modifying the received packet to use the determined network address and port number in place of a client network address and port number contained therein; and using the modified packet in the forwarding step.

Claim 74. (Original) A method of enabling location-independent packet routing in a short-range wireless networking environment, comprising steps of:

providing one or more portable client devices, each of the client devices identified by a constant client address and equipped with a short-range wireless communications capability for communicating in the short-range wireless networking environment;

providing one or more application servers, each of the application servers equipped for communicating over the short-range wireless networking environment; and

transmitting packets between selected ones of the client devices and selected ones of the application servers using intermediary agents that enable transparent roaming by at least one of the selected client devices and/or the selected application servers.

Claim 75. (Original) The method according to Claim 74, wherein the intermediary agents enable the transparent roaming using address translation of source addresses in outbound ones of the transmitted packets and of destination addresses in inbound ones of the transmitted packets.

Claim 76. (Original) The method according to Claim 74, wherein the intermediary agents include a home agent associated with each of the selected client devices.

Claim 77. (Currently amended) The method according to Claim ~~75~~ 76, wherein at least two of the selected client devices share a particular home agent.

Claim 78. (Original) The method according to Claim 77, wherein the particular home agent is a central server.



Claim 79. (Original) The method according to Claim 76, wherein the home agent associated with at least one of the selected client devices is determined using administrative policy.

Claim ~~79~~ 80. (currently amended) The method according to Claim 76, further comprising the step of dynamically changing the home agent associated with at least one of the selected client devices.

Claim ~~80~~ 81. (currently amended) The method according to Claim ~~79~~ 80, wherein the dynamically changing step occurs responsive to a failure of the home agent associated with the at least one selected client device.

Claim ~~81~~ 82. (currently amended) The method according to Claim ~~79~~ 80, wherein the dynamically changing step further comprises the steps of:

dynamically assuming, by a new home agent to be associated with the at least one selected client device, a network address used to identify the home agent that was previously associated with the at least one selected client device; and  
dynamically updating a repository which records the association of the previous home agent with the at least one selected client device, such that the repository now records the association of the new home agent with the at least one selected client device.

Claim ~~82~~ 83. (currently amended) A system for enabling Location-independent packet routing in a short-range wireless networking environment, comprising:

one or more portable client devices, each of the client devices identified by a constant client address and equipped with a short-range wireless communications capability for communicating in the short-range wireless networking environment;  
one or more application servers, each of the application servers equipped for communicating over the short-range wireless networking environment; and

intermediary agents for transparently transmitting packets between selected ones of the client devices and selected ones of the application servers even though at least one of the selected client devices and/or the selected application servers may roam from one location to another in the short-range wireless networking environment.

Claim ~~83~~ 84. (currently amended) Computer program instructions embodied on one or more computer readable media, the computer program instructions adapted for enabling location-independent packet routing in a short-range wireless networking environment and comprising:

computer program instructions for transmitting a packet from a selected one of one or more portable client devices to a selected one of one or more application servers, each of the client devices and application servers equipped for communicating in the short-range wireless networking environment, wherein the transmitted packet is received at a foreign agent through which the selected client device is currently communicating; and

computer program instructions for forwarding, by the foreign agent, the received packet to the selected application server.

## REMARKS

The present amendments are provided to prepare this application for issuance, and are merely correcting informalities. In particular, the specification is being amended to add the now known patent number associated with the parent application, to the Applicants' priority claim. Also, and as indicated by the Examiner's amendment, there original claim set as filed used claim number "79" twice (for two different consecutive claims). Thus, the claims 80-84 have been renumbered accordingly (per Examiner's Amendment), and the dependencies of claims 81 and 82 have also been corrected accordingly. Also, the dependency of claim 77 has been corrected. The amendments do not add new matter. Favorable action is solicited.

Respectfully submitted,  
RICHARD K. NEVES, ET AL.

Dated: March 21, 2006

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